

August 28, 2019

Arcelor Mittal USA, Inc.
250 W US Highway 12
Burns Harbor, IN 46304-9745

Work Order No.: 19H0114

Re: Daily

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 22 sample(s) on 8/2/2019 11:00:00AM for the analyses presented in the following report as Work Order 19H0114.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please contact your project manager. For any feedback, please contact Ron Misiunas, Division Manager, at ron.misiunas@microbac.com.

Sincerely,
Microbac Laboratories, Inc.



Carey Gadzala
Project Manager

WORK ORDER SAMPLE SUMMARY

Date: *Wednesday, August 28, 2019*

Client: Arcelor Mittal USA, Inc.
Project: Daily
Lab Order: 19H0114

| Lab Sample ID | Client Sample ID | Tag Number | Collection Date | Date Received |
|---------------|----------------------|-----------------|------------------|---------------------|
| 19H0114-01 | 011-Composite | 011 | 08/01/2019 06:00 | 8/2/2019 11:00:00AM |
| 19H0114-02 | 011-Grab | 011 | 08/01/2019 06:00 | 8/2/2019 11:00:00AM |
| 19H0114-03 | 001-Composite | 001 | 08/01/2019 06:10 | 8/2/2019 11:00:00AM |
| 19H0114-04 | 001-Grab | 001 | 08/01/2019 06:10 | 8/2/2019 11:00:00AM |
| 19H0114-05 | 031-Grab | 031 | 08/02/2019 06:26 | 8/2/2019 11:00:00AM |
| 19H0114-06 | Mixed Liquor-Grab | Mixed Liquor | 08/02/2019 06:28 | 8/2/2019 11:00:00AM |
| 19H0114-07 | J-Box-Grab | J-Box | 08/02/2019 06:24 | 8/2/2019 11:00:00AM |
| 19H0114-08 | WWII-Grab | WWII | 08/02/2019 07:15 | 8/2/2019 11:00:00AM |
| 19H0114-09 | Coldwell-Grab | Coldwell | 08/02/2019 07:40 | 8/2/2019 11:00:00AM |
| 19H0114-10 | RSB FT Overflow-Grab | RSB FT Overflow | 08/02/2019 07:50 | 8/2/2019 11:00:00AM |
| 19H0114-11 | RSB FT Influent-Grab | RSB FT Influent | 08/02/2019 07:51 | 8/2/2019 11:00:00AM |
| 19H0114-12 | BFTD-Grab | BFTD | 08/02/2019 07:55 | 8/2/2019 11:00:00AM |
| 19H0114-13 | 999-Grab | 999 | 08/02/2019 08:00 | 8/2/2019 11:00:00AM |
| 19H0114-14 | BFTC-Grab | BFTC | 08/02/2019 08:25 | 8/2/2019 11:00:00AM |
| 19H0114-15 | 002-Grab | 002 | 08/01/2019 08:30 | 8/2/2019 11:00:00AM |
| 19H0114-16 | WAL-Grab | WAL | 08/01/2019 08:42 | 8/2/2019 11:00:00AM |
| 19H0114-17 | CM1-Grab | CM1 | 08/02/2019 00:00 | 8/2/2019 11:00:00AM |
| 19H0114-18 | CM2-Grab | CM2 | 08/02/2019 00:00 | 8/2/2019 11:00:00AM |
| 19H0114-19 | CM6-Grab | CM6 | 08/02/2019 00:00 | 8/2/2019 11:00:00AM |
| 19H0114-20 | HM1-Grab | HM1 | 08/02/2019 00:00 | 8/2/2019 11:00:00AM |
| 19H0114-21 | HM2-Grab | HM2 | 08/02/2019 00:00 | 8/2/2019 11:00:00AM |
| 19H0114-22 | HM3-Grab | HM3 | 08/02/2019 00:00 | 8/2/2019 11:00:00AM |

Field Results

Date: *Wednesday, August 28, 2019*

| | |
|---|-----------------------------------|
| Client: Arcelor Mittal USA, Inc. | Work Order: 19H0114 |
| Client Project: Daily | |
| Client Sample ID: 011-Grab | Work Order/ID: 19H0114-02 |
| Sample Description: 011 | Sampled: 08/01/2019 06:00 |
| Matrix: Aqueous | Received: 08/02/2019 11:00 |

| Analyses | Result | Units |
|----------|--------|----------|
| pH | 7.8 | pH Units |

| | |
|-----------------------------------|-----------------------------------|
| Client Sample ID: 001-Grab | Work Order/ID: 19H0114-04 |
| Sample Description: 001 | Sampled: 08/01/2019 06:10 |
| Matrix: Aqueous | Received: 08/02/2019 11:00 |

| Analyses | Result | Units |
|----------|--------|----------|
| pH | 7.8 | pH Units |

| | |
|-------------------------------------|-----------------------------------|
| Client Sample ID: J-Box-Grab | Work Order/ID: 19H0114-07 |
| Sample Description: J-Box | Sampled: 08/02/2019 06:24 |
| Matrix: Aqueous | Received: 08/02/2019 11:00 |

| Analyses | Result | Units |
|----------|--------|----------|
| pH | 8.3 | pH Units |

| | |
|---|-----------------------------------|
| Client Sample ID: RSB FT Overflow-Grab | Work Order/ID: 19H0114-10 |
| Sample Description: RSB FT Overflow | Sampled: 08/02/2019 07:50 |
| Matrix: Aqueous | Received: 08/02/2019 11:00 |

| Analyses | Result | Units |
|----------|--------|----------|
| pH | 8.7 | pH Units |

| | |
|-----------------------------------|-----------------------------------|
| Client Sample ID: 999-Grab | Work Order/ID: 19H0114-13 |
| Sample Description: 999 | Sampled: 08/02/2019 08:00 |
| Matrix: Aqueous | Received: 08/02/2019 11:00 |

| Analyses | Result | Units |
|----------|--------|----------|
| pH | 8.3 | pH Units |

| | |
|-----------------------------------|-----------------------------------|
| Client Sample ID: 002-Grab | Work Order/ID: 19H0114-15 |
| Sample Description: 002 | Sampled: 08/01/2019 08:30 |
| Matrix: Aqueous | Received: 08/02/2019 11:00 |

| Analyses | Result | Units |
|----------|--------|----------|
| pH | 8.3 | pH Units |

| | |
|-----------------------------------|-----------------------------------|
| Client Sample ID: WAL-Grab | Work Order/ID: 19H0114-16 |
| Sample Description: WAL | Sampled: 08/01/2019 08:42 |
| Matrix: Aqueous | Received: 08/02/2019 11:00 |

| Analyses | Result | Units |
|----------|--------|----------|
| pH | 9.0 | pH Units |

CASE NARRATIVE**Date:** *Wednesday, August 28, 2019***Client:** Arcelor Mittal USA, Inc.**Project:** Daily**Lab Order:** 19H0114

Report has been reissued to include NH4 for Outfall 011 per the clients request. 8/28/19

Analytical Results

Date: *Wednesday, August 28, 2019*

| | | | |
|----------------------------|--------------------------|-----------------------|------------------|
| Client: | Arcelor Mittal USA, Inc. | Work Order/ID: | 19H0114-01 |
| Client Project: | Daily | Sampled: | 08/01/2019 6:00 |
| Client Sample ID: | 011-Composite | Received: | 08/02/2019 11:00 |
| Sample Description: | 011 | | |
| Matrix: | Aqueous | | |

| Analyses | Certs | AT | Result | MDL | RL | Qual | Units | DF | Analyzed |
|----------------------------------|-------|----|---------------------------|-------|------|--------------|-------|----|------------------|
| | | | Method: EPA 350.1 Rev 2.0 | | | Analyst: ABG | | | |
| Nitrogen, Ammonia as N | | | | | | | | | |
| Prep Date/Time: 08/22/2019 04:56 | | | | | | | | | |
| Nitrogen, Ammonia (As N) | ei | A | 0.18 | 0.054 | 0.10 | | mg/L | 1 | 08/22/2019 10:03 |

Analytical Results

Date: *Wednesday, August 28, 2019*

| | | | |
|----------------------------|--------------------------|-----------------------|------------------|
| Client: | Arcelor Mittal USA, Inc. | Work Order/ID: | 19H0114-03 |
| Client Project: | Daily | Sampled: | 08/01/2019 6:10 |
| Client Sample ID: | 001-Composite | Received: | 08/02/2019 11:00 |
| Sample Description: | 001 | | |
| Matrix: | Aqueous | | |

| Analyses | Certs | AT | Result | MDL | RL | Qual | Units | DF | Analyzed |
|----------------------------------|-------|----|---------------------------|-------|------|--------------|-------|----|------------------|
| | | | Method: EPA 350.1 Rev 2.0 | | | Analyst: ABG | | | |
| Nitrogen, Ammonia as N | | | | | | | | | |
| Prep Date/Time: 08/02/2019 11:07 | | | | | | | | | |
| Nitrogen, Ammonia (As N) | ei | A | 0.29 | 0.054 | 0.10 | | mg/L | 1 | 08/02/2019 13:14 |

Analytical Results

Date: Wednesday, August 28, 2019

| | | | |
|----------------------------|--------------------------|-----------------------|------------------|
| Client: | Arcelor Mittal USA, Inc. | Work Order/ID: | 19H0114-05 |
| Client Project: | Daily | Sampled: | 08/02/2019 6:26 |
| Client Sample ID: | 031-Grab | Received: | 08/02/2019 11:00 |
| Sample Description: | 031 | | |
| Matrix: | Aqueous | | |

| Analyses | Certs | AT | Result | MDL | RL | Qual | Units | DF | Analyzed | |
|---|-------|----|-------------------------------|-----|-----|------|---------------------|----|------------------|--|
| | | | Method: SM 5210 B-2001 | | | | Analyst: EF | | | |
| Prep Date/Time: 08/02/2019 15:43 | | | | | | | | | | |
| Biochemical Oxygen Demand | | | | | | | | | | |
| Biochemical Oxygen Demand | ejj | A | ND | 2.0 | 2.0 | U | mg/L | 1 | 08/07/2019 22:03 | |
| | | | Method: SM 2540 D-1997 | | | | Analyst: KMT | | | |
| Prep Date/Time: 08/02/2019 11:26 | | | | | | | | | | |
| Total Suspended Solids | | | | | | | | | | |
| Total Suspended Solids | ejj | A | 4.7 | 1.0 | 1.0 | | mg/L | 1 | 08/02/2019 13:08 | |

Analytical Results

Date: *Wednesday, August 28, 2019*

| | | | |
|----------------------------|--------------------------|-----------------------|------------------|
| Client: | Arcelor Mittal USA, Inc. | Work Order/ID: | 19H0114-06 |
| Client Project: | Daily | Sampled: | 08/02/2019 6:28 |
| Client Sample ID: | Mixed Liquor-Grab | Received: | 08/02/2019 11:00 |
| Sample Description: | Mixed Liquor | | |
| Matrix: | Aqueous | | |

| Analyses | Certs | AT | Result | MDL | RL | Qual | Units | DF | Analyzed | | |
|-------------------------------|-------|----|-------------------------------|-----|-----|------|---------------------|----|------------------|---|--|
| | | | Method: SM 2540 F-1997 | | | | Analyst: DAT | | | | |
| | | | | | | | | | | Prep Date/Time: 08/02/2019 11:20 | |
| Settleable Solids | | | | | | | | | | | |
| Settleable Solids | i | A | 240 | 1.0 | 1.0 | | ml/L | 1 | 08/02/2019 11:20 | | |
| | | | Method: SM 2540 D-1997 | | | | Analyst: KMT | | | | |
| Total Suspended Solids | | | | | | | | | | | |
| Total Suspended Solids | ejj | A | 2400 | 1.0 | 1.0 | | mg/L | 1 | 08/02/2019 13:08 | | |

Analytical Results

Date: *Wednesday, August 28, 2019*

| | | | |
|----------------------------|--------------------------|-----------------------|------------------|
| Client: | Arcelor Mittal USA, Inc. | Work Order/ID: | 19H0114-07 |
| Client Project: | Daily | Sampled: | 08/02/2019 6:24 |
| Client Sample ID: | J-Box-Grab | Received: | 08/02/2019 11:00 |
| Sample Description: | J-Box | | |
| Matrix: | Aqueous | | |

| Analyses | Certs | AT | Result | MDL | RL | Qual | Units | DF | Analyzed |
|-------------------------------|-------|----|---|--------|-------|---------------------|-------|----|------------------|
| | | | Method: EPA 350.1 Rev 2.0 | | | Analyst: ABG | | | |
| | | | Prep Date/Time: 08/02/2019 11:07 | | | | | | |
| Nitrogen, Ammonia as N | | | | | | | | | |
| Nitrogen, Ammonia (As N) | ei | A | 0.69 | 0.054 | 0.10 | | mg/L | 1 | 08/02/2019 13:17 |
| | | | Method: EPA 420.4 Rev 1.0 | | | Analyst: ABG | | | |
| | | | Prep Date/Time: 08/02/2019 11:07 | | | | | | |
| Total Phenolics | | | | | | | | | |
| Phenolics, Total Recoverable | ejj | A | 0.014 | 0.0060 | 0.010 | | mg/L | 1 | 08/02/2019 13:23 |
| | | | Method: SM 2540 D-1997 | | | Analyst: KMT | | | |
| | | | Prep Date/Time: 08/02/2019 11:26 | | | | | | |
| Total Suspended Solids | | | | | | | | | |
| Total Suspended Solids | ejj | A | 16 | 1.0 | 1.0 | | mg/L | 1 | 08/02/2019 13:08 |

Analytical Results

Date: *Wednesday, August 28, 2019*

| | | | |
|----------------------------|--------------------------|-----------------------|------------------|
| Client: | Arcelor Mittal USA, Inc. | Work Order/ID: | 19H0114-08 |
| Client Project: | Daily | Sampled: | 08/02/2019 7:15 |
| Client Sample ID: | WWII-Grab | Received: | 08/02/2019 11:00 |
| Sample Description: | WWII | | |
| Matrix: | Aqueous | | |

| Analyses | Certs | AT | Result | MDL | RL | Qual | Units | DF | Analyzed |
|----------------------|-------|----|---|--------|--------|---------------------|-------|----|------------------|
| | | | Method: SM 4500-CN C/E-1999 | | | Analyst: ABG | | | |
| | | | Prep Date/Time: 08/02/2019 11:07 | | | | | | |
| Total Cyanide | | | | | | | | | |
| Cyanide, Total | ejj | A | 0.016 | 0.0020 | 0.0050 | | mg/L | 1 | 08/02/2019 14:35 |

Analytical Results

Date: *Wednesday, August 28, 2019*

| | | | |
|----------------------------|--------------------------|-----------------------|------------------|
| Client: | Arcelor Mittal USA, Inc. | Work Order/ID: | 19H0114-09 |
| Client Project: | Daily | Sampled: | 08/02/2019 7:40 |
| Client Sample ID: | Coldwell-Grab | Received: | 08/02/2019 11:00 |
| Sample Description: | Coldwell | | |
| Matrix: | Aqueous | | |

| Analyses | Certs | AT | Result | MDL | RL | Qual | Units | DF | Analyzed | |
|--|-------|----|-----------------------------|--------|--------|------|--------------|----|------------------|--|
| | | | Method: EPA 200.7 Rev 4.4 | | | | Analyst: RPL | | | |
| Total Recoverable Metals by ICP | | | | | | | | | | |
| Prep Date/Time: 08/05/2019 08:47 | | | | | | | | | | |
| Lead | ejj | A | 0.11 | 0.0033 | 0.0075 | | mg/L | 1 | 08/05/2019 13:00 | |
| Zinc | ejj | A | 0.58 | 0.0073 | 0.020 | | mg/L | 1 | 08/05/2019 13:00 | |
| | | | Method: SM 4500-CN C/E-1999 | | | | Analyst: ABG | | | |
| Total Cyanide | | | | | | | | | | |
| Prep Date/Time: 08/02/2019 11:07 | | | | | | | | | | |
| Cyanide, Total | ejj | A | 0.0094 | 0.0020 | 0.0050 | | mg/L | 1 | 08/02/2019 14:37 | |
| | | | Method: EPA 350.1 Rev 2.0 | | | | Analyst: ABG | | | |
| Nitrogen, Ammonia as N | | | | | | | | | | |
| Prep Date/Time: 08/02/2019 11:07 | | | | | | | | | | |
| Nitrogen, Ammonia (As N) | ei | A | 38 | 0.54 | 1.0 | | mg/L | 1 | 08/02/2019 13:19 | |
| | | | Method: SM 2540 D-1997 | | | | Analyst: KMT | | | |
| Total Suspended Solids | | | | | | | | | | |
| Prep Date/Time: 08/02/2019 11:26 | | | | | | | | | | |
| Total Suspended Solids | ejj | A | 85 | 1.0 | 1.0 | | mg/L | 1 | 08/02/2019 13:08 | |

Analytical Results

Date: *Wednesday, August 28, 2019*

| | | | |
|----------------------------|--------------------------|-----------------------|------------------|
| Client: | Arcelor Mittal USA, Inc. | Work Order/ID: | 19H0114-10 |
| Client Project: | Daily | Sampled: | 08/02/2019 7:50 |
| Client Sample ID: | RSB FT Overflow-Grab | Received: | 08/02/2019 11:00 |
| Sample Description: | RSB FT Overflow | | |
| Matrix: | Aqueous | | |

| Analyses | Certs | AT | Result | MDL | RL | Qual | Units | DF | Analyzed |
|--|-------|----|---------------------------|--------|--------|----------------------------------|-------|----|------------------|
| | | | Method: EPA 200.7 Rev 4.4 | | | Analyst: RPL | | | |
| Total Recoverable Metals by ICP | | | | | | | | | |
| | | | | | | Prep Date/Time: 08/05/2019 08:47 | | | |
| Lead | ejj | A | 0.038 | 0.0033 | 0.0075 | | mg/L | 1 | 08/05/2019 13:20 |
| Zinc | ejj | A | 0.11 | 0.0073 | 0.020 | | mg/L | 1 | 08/05/2019 13:20 |
| | | | Method: EPA 350.1 Rev 2.0 | | | Analyst: ABG | | | |
| Nitrogen, Ammonia as N | | | | | | | | | |
| | | | | | | Prep Date/Time: 08/02/2019 11:07 | | | |
| Nitrogen, Ammonia (As N) | ei | A | 5.5 | 0.054 | 0.10 | | mg/L | 1 | 08/02/2019 13:22 |
| | | | Method: SM 2540 D-1997 | | | Analyst: KMT | | | |
| Total Suspended Solids | | | | | | | | | |
| | | | | | | Prep Date/Time: 08/02/2019 11:26 | | | |
| Total Suspended Solids | ejj | A | 20 | 1.0 | 1.0 | | mg/L | 1 | 08/02/2019 13:08 |

Analytical Results

Date: *Wednesday, August 28, 2019*

| | | | |
|----------------------------|--------------------------|-----------------------|------------------|
| Client: | Arcelor Mittal USA, Inc. | Work Order/ID: | 19H0114-11 |
| Client Project: | Daily | Sampled: | 08/02/2019 7:51 |
| Client Sample ID: | RSB FT Influent-Grab | Received: | 08/02/2019 11:00 |
| Sample Description: | RSB FT Influent | | |
| Matrix: | Aqueous | | |

| Analyses | Certs | AT | Result | MDL | RL | Qual | Units | DF | Analyzed | | |
|-------------------------------|-------|----|-------------------------------|-----|-----|------|---------------------|----|------------------|---|--|
| | | | Method: SM 2540 D-1997 | | | | Analyst: KMT | | | | |
| | | | | | | | | | | Prep Date/Time: 08/02/2019 11:26 | |
| Total Suspended Solids | ejj | A | 1700 | 1.0 | 1.0 | | mg/L | 1 | 08/02/2019 13:08 | | |

Analytical Results

Date: *Wednesday, August 28, 2019*

| | | | |
|----------------------------|--------------------------|-----------------------|------------------|
| Client: | Arcelor Mittal USA, Inc. | Work Order/ID: | 19H0114-12 |
| Client Project: | Daily | Sampled: | 08/02/2019 7:55 |
| Client Sample ID: | BFTD-Grab | Received: | 08/02/2019 11:00 |
| Sample Description: | BFTD | | |
| Matrix: | Aqueous | | |

| Analyses | Certs | AT | Result | MDL | RL | Qual | Units | DF | Analyzed | |
|-------------------------------|-------|----|---|-----|-----|------|---------------------|----|------------------|--|
| | | | Method: SM 2540 D-1997 | | | | Analyst: KMT | | | |
| | | | Prep Date/Time: 08/02/2019 11:26 | | | | | | | |
| Total Suspended Solids | | | | | | | | | | |
| Total Suspended Solids | ejj | A | 48 | 1.0 | 1.0 | | mg/L | 1 | 08/02/2019 13:08 | |

Analytical Results

Date: Wednesday, August 28, 2019

| | | | |
|----------------------------|--------------------------|-----------------------|------------------|
| Client: | Arcelor Mittal USA, Inc. | Work Order/ID: | 19H0114-13 |
| Client Project: | Daily | Sampled: | 08/02/2019 8:00 |
| Client Sample ID: | 999-Grab | Received: | 08/02/2019 11:00 |
| Sample Description: | 999 | | |
| Matrix: | Aqueous | | |

| Analyses | Certs | AT | Result | MDL | RL | Qual | Units | DF | Analyzed |
|----------------------------------|-------|----|------------------------|-----|-----|--------------|-------|----|------------------|
| | | | Method: SM 2540 D-1997 | | | Analyst: KMT | | | |
| Total Suspended Solids | | | | | | | | | |
| Prep Date/Time: 08/02/2019 11:26 | | | | | | | | | |
| Total Suspended Solids | ejj | A | 3.7 | 1.0 | 1.0 | | mg/L | 1 | 08/02/2019 13:08 |

Analytical Results

Date: *Wednesday, August 28, 2019*

| | | | |
|----------------------------|--------------------------|-----------------------|------------------|
| Client: | Arcelor Mittal USA, Inc. | Work Order/ID: | 19H0114-14 |
| Client Project: | Daily | Sampled: | 08/02/2019 8:25 |
| Client Sample ID: | BFTC-Grab | Received: | 08/02/2019 11:00 |
| Sample Description: | BFTC | | |
| Matrix: | Aqueous | | |

| Analyses | Certs | AT | Result | MDL | RL | Qual | Units | DF | Analyzed |
|---|-------|----|-------------------------------|-----|-----|---------------------|-------|----|------------------|
| | | | Method: SM 2540 D-1997 | | | Analyst: KMT | | | |
| Total Suspended Solids | | | | | | | | | |
| Prep Date/Time: 08/02/2019 11:26 | | | | | | | | | |
| Total Suspended Solids | ejj | A | 46 | 1.0 | 1.0 | | mg/L | 1 | 08/02/2019 13:08 |

Analytical Results

Date: *Wednesday, August 28, 2019*

| | | | |
|----------------------------|--------------------------|-----------------------|------------------|
| Client: | Arcelor Mittal USA, Inc. | Work Order/ID: | 19H0114-16 |
| Client Project: | Daily | Sampled: | 08/01/2019 8:42 |
| Client Sample ID: | WAL-Grab | Received: | 08/02/2019 11:00 |
| Sample Description: | WAL | | |
| Matrix: | Aqueous | | |

| Analyses | Certs | AT | Result | MDL | RL | Qual | Units | DF | Analyzed | |
|---|-------|----|-------------------------------|-----|-----|------|---------------------|----|------------------|--|
| | | | Method: SM 2540 D-1997 | | | | Analyst: KMT | | | |
| Total Suspended Solids | | | | | | | | | | |
| Prep Date/Time: 08/02/2019 11:26 | | | | | | | | | | |
| Total Suspended Solids | ejj | A | 5.4 | 1.0 | 1.0 | | mg/L | 1 | 08/02/2019 13:08 | |

Analytical Results

Date: *Wednesday, August 28, 2019*

| | | | |
|----------------------------|--------------------------|-----------------------|------------------|
| Client: | Arcelor Mittal USA, Inc. | Work Order/ID: | 19H0114-17 |
| Client Project: | Daily | Sampled: | 08/02/2019 0:00 |
| Client Sample ID: | CM1-Grab | Received: | 08/02/2019 11:00 |
| Sample Description: | CM1 | | |
| Matrix: | Aqueous | | |

| Analyses | Certs | AT | Result | MDL | RL | Qual | Units | DF | Analyzed |
|---|-------|----|-------------------------------|-----|-----|---------------------|-------|----|------------------|
| | | | Method: SM 2540 D-1997 | | | Analyst: KMT | | | |
| Total Suspended Solids | | | | | | | | | |
| Prep Date/Time: 08/02/2019 11:26 | | | | | | | | | |
| Total Suspended Solids | ejj | A | 21 | 1.0 | 1.0 | | mg/L | 1 | 08/02/2019 13:08 |

Analytical Results

Date: *Wednesday, August 28, 2019*

| | | | |
|----------------------------|--------------------------|-----------------------|------------------|
| Client: | Arcelor Mittal USA, Inc. | Work Order/ID: | 19H0114-18 |
| Client Project: | Daily | Sampled: | 08/02/2019 0:00 |
| Client Sample ID: | CM2-Grab | Received: | 08/02/2019 11:00 |
| Sample Description: | CM2 | | |
| Matrix: | Aqueous | | |

| Analyses | Certs | AT | Result | MDL | RL | Qual | Units | DF | Analyzed |
|---|-------|----|-------------------------------|-----|-----|---------------------|-------|----|------------------|
| | | | Method: SM 2540 D-1997 | | | Analyst: KMT | | | |
| Total Suspended Solids | | | | | | | | | |
| Prep Date/Time: 08/02/2019 11:26 | | | | | | | | | |
| Total Suspended Solids | ejj | A | 15 | 1.0 | 1.0 | | mg/L | 1 | 08/02/2019 13:08 |

Analytical Results

Date: *Wednesday, August 28, 2019*

| | | | |
|----------------------------|--------------------------|-----------------------|------------------|
| Client: | Arcelor Mittal USA, Inc. | Work Order/ID: | 19H0114-19 |
| Client Project: | Daily | Sampled: | 08/02/2019 0:00 |
| Client Sample ID: | CM6-Grab | Received: | 08/02/2019 11:00 |
| Sample Description: | CM6 | | |
| Matrix: | Aqueous | | |

| Analyses | Certs | AT | Result | MDL | RL | Qual | Units | DF | Analyzed |
|---|-------|----|-------------------------------|-----|-----|---------------------|-------|----|------------------|
| | | | Method: SM 2540 D-1997 | | | Analyst: KMT | | | |
| Total Suspended Solids | | | | | | | | | |
| Prep Date/Time: 08/02/2019 11:26 | | | | | | | | | |
| Total Suspended Solids | ejj | A | 12 | 1.0 | 1.0 | | mg/L | 1 | 08/02/2019 13:08 |

Analytical Results

Date: *Wednesday, August 28, 2019*

| | | | |
|----------------------------|--------------------------|-----------------------|------------------|
| Client: | Arcelor Mittal USA, Inc. | Work Order/ID: | 19H0114-20 |
| Client Project: | Daily | Sampled: | 08/02/2019 0:00 |
| Client Sample ID: | HM1-Grab | Received: | 08/02/2019 11:00 |
| Sample Description: | HM1 | | |
| Matrix: | Aqueous | | |

| Analyses | Certs | AT | Result | MDL | RL | Qual | Units | DF | Analyzed |
|---|-------|----|-------------------------------|-----|-----|---------------------|-------|----|------------------|
| | | | Method: SM 2540 D-1997 | | | Analyst: KMT | | | |
| Total Suspended Solids | | | | | | | | | |
| Prep Date/Time: 08/02/2019 11:26 | | | | | | | | | |
| Total Suspended Solids | ejj | A | 21 | 1.0 | 1.0 | | mg/L | 1 | 08/02/2019 13:08 |

Analytical Results

Date: Wednesday, August 28, 2019

| | | | |
|----------------------------|--------------------------|-----------------------|------------------|
| Client: | Arcelor Mittal USA, Inc. | Work Order/ID: | 19H0114-21 |
| Client Project: | Daily | Sampled: | 08/02/2019 0:00 |
| Client Sample ID: | HM2-Grab | Received: | 08/02/2019 11:00 |
| Sample Description: | HM2 | | |
| Matrix: | Aqueous | | |

| Analyses | Certs | AT | Result | MDL | RL | Qual | Units | DF | Analyzed |
|----------------------------------|-------|----|------------------------|-----|-----|--------------|-------|----|------------------|
| | | | Method: SM 2540 D-1997 | | | Analyst: KMT | | | |
| Total Suspended Solids | | | | | | | | | |
| Prep Date/Time: 08/02/2019 11:26 | | | | | | | | | |
| Total Suspended Solids | ejj | A | 13 | 1.0 | 1.0 | | mg/L | 1 | 08/02/2019 13:08 |

Analytical Results

Date: *Wednesday, August 28, 2019*

| | | | |
|----------------------------|--------------------------|-----------------------|------------------|
| Client: | Arcelor Mittal USA, Inc. | Work Order/ID: | 19H0114-22 |
| Client Project: | Daily | Sampled: | 08/02/2019 0:00 |
| Client Sample ID: | HM3-Grab | Received: | 08/02/2019 11:00 |
| Sample Description: | HM3 | | |
| Matrix: | Aqueous | | |

| Analyses | Certs | AT | Result | MDL | RL | Qual | Units | DF | Analyzed |
|---|-------|----|-------------------------------|-----|-----|---------------------|-------|----|------------------|
| | | | Method: SM 2540 D-1997 | | | Analyst: KMT | | | |
| Total Suspended Solids | | | | | | | | | |
| Prep Date/Time: 08/02/2019 11:26 | | | | | | | | | |
| Total Suspended Solids | ejj | A | 16 | 1.0 | 1.0 | | mg/L | 1 | 08/02/2019 13:08 |

ANALYTE TYPES: (AT)

A, B = Target Analyte

I = Internal Standard

M = Summation Analyte

S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)

**Revised**
8/28/2019

QC SAMPLE IDENTIFICATIONS

BLK = Method Blank

DUP = Method Duplicate

BS = Method Blank Spike

MS = Matrix Spike

ICB = Initial Calibration Blank

CCB = Continuing Calibration Blank

CRL = Client Required Reporting Limit

PDS = Post Digestion Spike

QCS = Quality Control Standard

ICSA = Interference Check Standard "A"

ICSAB = Interference Check Standard "AB"

BSD = Method Blank Spike Duplicate

MSD = Matrix Spike Duplicate

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

OPR = Ongoing Precision and Recovery Standard

SD = Serial Dilution

CERTIFICATIONS (Certs)

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

d Illinois EPA drinking water, wastewater and solid waste analysis (#200064)

i Kansas Dept Health & Env. NELAP (#E-10397)

j Kentucky Wastewater Laboratory Certification Program (#108202)

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)**MDL:** Minimum Detection Limit**RL:** Reporting Limit**RPD:** Relative Percent Difference**U:** The analyte was analyzed for but was not detected above the reported quantitation limit. The quantitation limit has been adjusted for any dilution or concentration of the sample.

Cooler Receipt Log

Revised

Cooler ID: Default Cooler



8/28/2019

Cooler Inspection Checklist

| | |
|--|-----|
| Ice Present or not required? | Yes |
| Shipping containers sealed or not required? | Yes |
| Custody seals intact or not required? | Yes |
| Chain of Custody (COC) Present? | Yes |
| COC includes customer information? | Yes |
| Relinquished and received signature on COC? | Yes |
| Sample collector identified on COC? | Yes |
| Sample type identified on COC? | Yes |
| Correct type of Containers Received | Yes |
| Correct number of containers listed on COC? | Yes |
| Containers Intact? | Yes |
| COC includes requested analyses? | Yes |
| Enough sample volume for indicated tests received? | Yes |
| Sample labels match COC (Name, Date & Time?) | Yes |
| Samples arrived within hold time? | Yes |
| Correct preservatives on COC or not required? | Yes |
| Chemical preservations checked or not required? | Yes |
| Preservation checks meet method requirements? | Yes |
| VOA vials have zero headspace, or not recd.? | Yes |